

Applic. No.: 10/635,737
Amdt. Dated February 21, 2006
Reply to Office action of December 20, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claims 1-14 (cancelled).

Claim 15 (currently amended). A method for recognizing a substrate stock within a printing unit, the method comprising the following steps:

providing at least one light sensitive sensor, the at least one light sensitive sensor being attached to the printing unit and being able to independently sense several partial ranges of light wavelengths;

providing a light-emitting light source, light emitted from the light-emitting light source being reflected by or transmitted through a surface and/or a substrate stock on the surface in the printing unit;

sensing several partial ranges of light wavelengths of the reflected or transmitted light with the at least one light sensitive sensor and measuring the luminosity of these ranges of light wavelengths; and

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automatically assigning the measured luminosity of the several partial ranges of light wavelengths a color value within a color area, and comparing the color value with a reference color value and recognizing a substrate stock if the compared color value differs; and

ascertaining the reference color value by the sensor through a measurement of the light reflected by or transmitted through the surface on which the substrate stock is to be recognized.

~~comparing the luminosity values of the sensed partial ranges of light wavelengths with reference values and recognizing a substrate stock on the surface if compared values differ at least for one range of light wavelengths.~~

Claims 16-18 (cancelled).

Claim 19 (currently amended). ~~The method according to claim 17, which further comprises~~ A method for recognizing a substrate stock within a printing unit, the method comprising the following steps:

providing at least one light sensitive sensor, the at least one light sensitive sensor being attached to the printing unit

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and being able to independently sense several partial ranges
of light wavelengths;

providing a light-emitting light source, light emitted from
the light-emitting light source being reflected by or
transmitted through a surface and/or a substrate stock on the
surface in the printing unit;

sensing several partial ranges of light wavelengths of the
reflected or transmitted light with the at least one light
sensitive sensor and measuring the luminosity of these ranges
of light wavelengths;

automatically assigning the measured luminosity of the several
partial ranges of light wavelengths a color value within a
color area and comparing the color value with a reference
color value; and

determining a deviation of the assigned color value from the
reference value and recognizing a substrate stock if the
deviation exceeds a previously determined threshold value.

Claim 20 (previously presented). The method according to
claim 19, which further comprises stopping at least an
affected area of the printing unit and/or triggering an alarm

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whenever the deviation exceeds the previously determined threshold value.

Claim 21 (previously presented). A device for recognizing a substrate stock on a surface in a printing unit, the device comprising:

at least one light sensitive sensor, said at least one light sensitive sensor being attached to the printing unit for independently sensing several partial ranges of light wavelengths;

a light-emitting light source, light emitted from said light-emitting light source being reflected by or transmitted through a surface and/or a substrate stock on said surface in the printing unit;

a device for comparing a luminosity value of at least one range out of several ranges of light wavelengths with a reference value and recognizing said substrate stock on said surface if compared values differ at least for one range of light wavelengths; and

a device for triggering an alarm and/or stopping at least an affected area of the printing unit if a substrate stock is

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recognized on said surface, said surface showing a color value deviating from all colors that the printing unit can produce with printing inks.

Claim 22 (previously presented). The device according to claim 21, wherein said surface on which said substrate stock is to be recognized is outside a conveyance sequence for said substrate stock.